Special Issue

Tunneling in Complex Systems

Message from the Guest Editors

This Special Issue aims to bring together discussions of quantum tunneling from different fields to address the questions of what constitutes tunneling, how it relates to its counterparts such as Anderson localization and quantum reflection, in addition to generating further knowledge and innovations and highlighting what unites tunneling across disciplines. Topics include but are not limited to:

- tunneling in thermal systems
- many-body tunneling
- tunneling time
- dynamical tunneling
- chaos-assisted tunneling
- coherent vs incoherent tunneling
- role of Planckian times
- tunneling in glassy systems
- tunneling in quantum solids like H2 below 13 K
- tunneling in molecules
- tunneling in biological systems

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The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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Editor-in-Chief

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